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Abstract (Basic): JP 60071956 A

Oxygen indicator which change colour from clear yellow to black depending on the concn. of oxygen comprises combination of more than two components selected from bis(salicylaldehyde)-alkylenediimine cobalt and/or its derivs.

Alkylene diimine includes ethylene diimine, hexamethylene diimine, and 3,3-diimino-di-n-propylamine etc.. Derivs. of bis(salicylaldehyde) alkylenediiminecobalt include those having constituent such as halogen atoms, alkyl, alkoxy, and nitro gps., as well as bis(orthohydroxyacetophenone)alkylene diiminecobalt and its derivs. The cobalt complexes in powder can be activated esp. by immersing them into pyridine soln. and then effecting deaeration on heating to remove pyridine. The cobalt complexes can be applied to substrates (e.g., plastic films, metal foils, paper sheet or cloths) by vacuum deposition, sputtering, pirnting (e.g., gravure or offset process) or brushing.

USE/ADVANTAGE - Packed with foods, cloths or others to make sure of effectiveness of vacuum packaging or deoxidiser in the package. The indicators operate by oxygen in atmosphere without help of water or other cpds.. High sensitivity requires oxygen of only 0.1 % in air to provide colour change. Colour changing reaction is reversible. Has high stability during storing.

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Derwent Class: E36; J04

International Patent Class (Main): G01N-031/22

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Oxygen detecting material - comprises salicylaldehyde-ethylene-diimine metal complex contg. compsn. applied to base material

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Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
JP 60063465	A	19850411	JP 83170853	A	19830916		198521 B

Priority Applications (No Type Date): JP 83170853 A 19830916

Patent Details:

Patent	Kind	Lan	Pg	Filing Notes	Application	Patent
JP 60063465	A		3			